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# NOTICE OF ALLOWANCE AND FEE(S) DUE

LUCAS & MERCANTI, LLP 475 Park Avenue South, 15th Floor New York, NY 10016 EXAMINER
WILSON, GREGORY A

ART UNIT PAPER NUMBER

3749

DATE MAILED: 08/05/2011

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/555,854      | 11/05/2005  | Dirk Schmidt         | НМ-667РСТ           | 4616             |

TITLE OF INVENTION: METHOD AND DEVICE FOR COOLING OR QUENCHING SLABS AND SHEETS WITH WATER IN A COOLING POND

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1510        | \$300               | \$0                  | \$1810           | 11/07/2011 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 or Fax (571)-273-2885

| appropriate. All further indicated unless correcte maintenance fee notifical   | correspondence including below or directed oth tions.  | or transmitting the 1880 of the Patent, advance of the Patent, advance of the patents in Block 1, by (a                        | rders and notification of a specifying a new corre   | maintenance fees wi<br>spondence address;  | ill be and/or                                | mailed to the current<br>(b) indicating a sepa  | correspondence address as<br>rate "FEE ADDRESS" for   |
|--|--|--|--|--|--|---|---|
| CURRENT CORRESPONDI<br>40570   | ENCE ADDRESS (Note: Use BI   | ock 1 for any change of address)  /2011  | Fee<br>pap   | (s) Transmittal. This<br>ers. Each additional<br>e its own certificate   | certif<br>paper,<br>of mai                   | icate cannot be used for<br>such as an assignment<br>ling or transmission.  | r domestic mailings of the<br>or any other accompanying<br>nt or formal drawing, must   |
| LUCAS & ME<br>475 Park Avenue<br>New York, NY 1  | e South, 15th Floor  |  | I he<br>Stat<br>add<br>tran  | roby cortify that this   | c Ecolo                                      | of Mailing or Transo<br>3) Transmittal is being<br>ficient postage for first<br>ISSUE FEE address<br>1) 273-2885, on the da   | <b>nission</b> deposited with the United t class mail in an envelope above, or being facsimile te indicated below.                                |
|  |  |  |  |  |  |   | (Depositor's name)  |
|  |  |  |  |  |  |   | (Signature)   |
|  |  |  |  |  |  |   | (Date)  |
| APPLICATION NO.  | FILING DATE  |  | FIRST NAMED INVENTOR   |  | ATTO   | RNEY DOCKET NO.   | CONFIRMATION NO.  |
| 10/555,854   | 11/05/2005   |  | Dirk Schmidt   |  |  | НМ-667РСТ   | 4616  |
| APPLN, TYPE  | SMALL ENTITY   | ISSUE FEE DUE  | QUENCHING SLABS AT PUBLICATION FEE DUE   | PREV. PAID ISSUE   | -  | TOTAL FEE(S) DUE  | DATE DUE  |
| nonprovisional   | NO   | \$1510   | \$300  | \$0  |  | \$1810  | 11/07/2011  |
|  |  | ,<br>T   | •  | 7  |  | <b>\$1010</b>   | 11/0//2011  |
| EXAM   |  | ART UNIT   | CLASS-SUBCLASS   | J  |  |   |   |
| WILSON, G  |  | 3749   | 432-236000  2. For printing on the p   | actant front mana list   |  |   |   |
| <ul> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ul> |  |  | (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to  |  |  |   |   |
| PLEASE NOTE: Unl<br>recordation as set forti<br>(A) NAME OF ASSIG  | ess an assignee is ident<br>h in 37 CFR 3.11. Comp<br>GNEE   | ified below, no assignee   | T a substitute for filing an<br>(B) RESIDENCE: (CITY   | atent. If an assigne assignment.  Y and STATE OR Co  | OUNT   | RY)   | ocument has been filed for up entity  |
| 4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies  |  |  | b. Payment of Fee(s): (Plead   | rd. Form PTO-2038  | is attac                                     | ched.   | ,   |
| a. Applicant claim   | <b>tus</b> (from status indicates<br>s SMALL ENTITY statu  | is. See 37 CFR 1.27.   | ☐ b. Applicant is no lon   | • •  |  |   |   |
| NOTE: The Issue Fee and interest as shown by the i   | d Publication Fee (if req<br>records of the United Sta   | uired) will not be accepte<br>tes Patent and Trademark   | d trom anyone other than t<br>Office.  | the applicant; a regis   | tered a                                      | attorney or agent; or th  | e assignee or other party in  |
| Authorized Signature   |  |  |  | Date   |  |   |   |
| Typed or printed name  |  |  |  | Registration No  | o  |   |   |
| This collection of inform<br>an application. Confident<br>submitting the completed<br>his form and/or suggesti<br>Box 1450, Alexandria, V  | ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this bu (irginia 22313-1450. DO 13-1450 | FR 1.311. The informatic<br>U.S.C. 122 and 37 CFR<br>USPTO. Time will vary<br>rden, should be sent to th<br>NOT SEND FEES OR ( | on is required to obtain or 1.14. This collection is est depending upon the individual Complete Theorems To the complete Forms To th | retain a benefit by th<br>timated to take 12 m<br>vidual case. Any cor<br>er, U.S. Patent and T<br>D THIS ADDRESS. | e publ<br>ninutes<br>nment<br>Fradem<br>SENI | ic which is to file (and<br>to complete, includin<br>s on the amount of tir<br>nark Office, U.S. Depa<br>D TO: Commissioner f | by the USPTO to process)<br>g gathering, preparing, and<br>ne you require to complete<br>attment of Commerce, P.O.<br>for Patents, P.O. Box 1450, |

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|---|-------------------------|-----------------------|---------------------|------------------|
| 10/555,854  | 11/05/2005 Dirk Schmidt |                       | HM-667PCT           | 4616             |
| 40570 75  | 90 08/05/2011           | EXAMINER              |                     |                  |
| LUCAS & MERO  | CANTI, LLP              | WILSON, GREGORY A     |                     |                  |
| 475 Park Avenue South, 15th Floor<br>New York, NY 10016 |                         | ART UNIT PAPER NUMBER |                     |                  |
|   |                         |                       | 3749                |                  |

DATE MAILED: 08/05/2011

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## **Privacy Act Statement**

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

|  | Application No.  | Applicant(s)   |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  | 10/555,854   | SCHMIDT ET AL.   |  |  |  |  |  |
| Notice of Allowability   | Examiner   | Art Unit   |  |  |  |  |  |
|  | GREGORY A. WILSON  | 3749   |  |  |  |  |  |
|  | GREGORY A. WILSON  | 3749   |  |  |  |  |  |
| The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in thi<br>or other appropriate communic<br>IGHTS. This application is subj | s application. If not included ation will be mailed in due course. <b>THIS</b> |  |  |  |  |  |
| 1. $\boxtimes$ This communication is responsive to <u>amendment received</u>   | <u>17/20/2011</u> .  |  |  |  |  |  |  |
| 2. The allowed claim(s) is/are   |  |  |  |  |  |  |  |
| 3. ☑ Acknowledgment is made of a claim for foreign priority u  a) ☑ All b) ☐ Some* c) ☐ None of the:  1. ☑ Certified copies of the priority documents have   |  | ).   |  |  |  |  |  |
| 2. Certified copies of the priority documents have   |  | 0  |  |  |  |  |  |
| 3. ☐ Copies of the certified copies of the priority do   | • •  |  |  |  |  |  |  |
| International Bureau (PCT Rule 17.2(a)).   |  | <b>5</b> 11  |  |  |  |  |  |
| * Certified copies not received:   |  |  |  |  |  |  |  |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.                               |  |  |  |  |  |  |  |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subm<br>INFORMAL PATENT APPLICATION (PTO-152) which giv  |  |  |  |  |  |  |  |
| 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.   |  |  |  |  |  |  |  |
| (a) I including changes required by the Notice of Draftspers   | son's Patent Drawing Review (F   | PTO-948) attached  |  |  |  |  |  |
| 1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date   |  |  |  |  |  |  |  |
| (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date   |  |  |  |  |  |  |  |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in 1   |  |  |  |  |  |  |  |
| 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892)  | 5. ☐ Notice of Inforn  | nal Patent Application   |  |  |  |  |  |
| 2. $\square$ Notice of Draftperson's Patent Drawing Review (PTO-948)   | 6. 🔲 Interview Sumr  |  |  |  |  |  |  |
| 3. Information Disclosure Statements (PTO/SB/08),  | Paper No./Mai<br>7.  | I Date<br>endment/Comment  |  |  |  |  |  |
| Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit  | 8. 🛛 Examiner's Sta  | tement of Reasons for Allowance  |  |  |  |  |  |
| of Biological Material   | 9. 🔲 Other   |  |  |  |  |  |  |
| /GREGORY A. WILSON/  |  |  |  |  |  |  |  |
| Primary Examiner, Art Unit 3749  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

#### **DETAILED ACTION**

## Allowable Subject Matter

Claims 1-3 and 5-12 allowed.

The following is an examiner's statement of reasons for allowance: The primary reason for allowance is that prior art does not teach a method/apparatus for cooling or quenching a metal slab or sheet wherein the slab is tilted upright by a tilting device, and vertically lowered into a cooling basin containing water and while submerged, having the slabs or sheets impacted with a spray of water.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GREGORY A. WILSON whose telephone number is (571)272-4882. The examiner can normally be reached on 7 am - 4:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve McAllister can be reached on (571) 272-6785. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/555,854 Page 3

Art Unit: 3749

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GREGORY A. WILSON/ Primary Examiner, Art Unit 3749 July 30, 2011